

US EPA RECORDS CENTER REGION 5



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U.S. ENVIRONMENTAL PROTECTION AGENCY
 POLLUTION/SITUATION REPORT
 Inverse Investments Site - Removal Polrep
 Final Removal Polrep



UNITED STATES ENVIRONMENTAL PROTECTION AGENCY
 Region V

Subject: POLREP #5
 Inverse Investments Site
 C5T7
 McHenry, IL
 Latitude: 42.3438560 Longitude: -88.2556710

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Date: 9/24/2015

Reporting Period:

1. Introduction

1.1 Background

Site Number:	C5T7	Contract Number:	EP-S5-09-05
D.O. Number:	0125 (ER)	Action Memo Date:	4/17/2015
Response Authority:	CERCLA	Response Type:	Time-Critical
Response Lead:	EPA	Incident Category:	Removal Action
NPL Status:	Non NPL	Operable Unit:	N/A
Mobilization Date:	6/21/2013	Start Date:	6/21/2013
Demob Date:	9/24/2015	Completion Date:	9/24/2015
CERCLIS ID:	TBD	RCRIS ID:	N/A
ERNS No.:	N/A	State Notification:	Referred by State
FPN#:		Reimbursable Account #:	

1.1.1 Incident Category

CERCLA Removal Assessment/Fund-lead Removal

1.1.2 Site Description

The Inverse Investment Site consists of a groundwater plume located in a mixed residential and commercial neighborhood in McHenry, McHenry County, Illinois. The Site was referred to the U.S. EPA by Illinois EPA after private residential well samples collected by the Illinois EPA and McHenry County Department of Health (MCDH) indicated the presence of chlorinated solvents at concentrations above the EPA drinking water maximum contaminant levels (MCL), including tetrachloroethene (PCE), trichloroethene (TCE), dichloroethylene, and vinyl chloride. The source of the groundwater plume under investigation is a former dry cleaner located at 3004 West Illinois Route 120.

Between December 2012 and March 2014, EPA and the Weston Solutions, Inc., Superfund Technical Assessment and Response Team (START) conducted four rounds of quarterly groundwater well sampling at residential and commercial properties within the Site. Samples from five drinking water wells at five residential properties (one well at each property) contained VOCs at concentrations exceeding EPA RMLs (PCE, TCE, DCE, and vinyl chloride).

The EPA provided bottled water to the five residences with PCE, TCE, DCE, and vinyl chloride contamination. However, now that EPA has completed connecting the affected homes to the City of McHenry municipal water system, the bottled water deliveries have been discontinued.

Contamination in soil and groundwater was found during an investigation associated with a property located on the east side of the Fox River in McHenry, at 3004 W. Elm Street (Route 120). The property, currently owned by the Inverse Investments, Inc. Trust, is enrolled in the Illinois Environmental Protection Agency (Illinois EPA) voluntary cleanup program. The dry cleaners occupied the site during the 1970's and early 1980's. Historic use of solvents at the former dry cleaner location has resulted in contamination of the soil and groundwater with Volatile Organic Compounds (VOCs). These chemicals, commonly found in industrial and commercial solvents, tend to break down very slowly once they reach the groundwater.

Groundwater contamination extends beyond the property boundaries to the southwest towards the Fox River, which is approximately 1100 feet west and south of the site. The groundwater contamination is located in a mixed industrial, commercial and residential area. The public water supply is available to some properties along Route 120, where there is a water main in place. Most of the homes and businesses in the area use private wells for their water source.

1.1.2.1 Location

The Site roughly is bounded to the north by West Illinois Route 120 and an athletic field, to the east by North Avenue and commercial facilities, and to the south and west by the Fox River. The potential source of the groundwater plume under investigation is a former dry cleaner located at 3004 West Illinois Route 120. The former dry cleaner currently is the location of an Enterprise Rent-A-Car facility. The former dry cleaner's approximate geographical coordinates are 42° 20' 37.85" North latitude and 88° 15' 20.42" West longitude.

1.1.2.2 Description of Threat

Historic use of solvents at this location has resulted in contamination of the soil and groundwater by Volatile Organic Compounds (VOCs). These are common chemicals found in industrial and commercial solvents. Soil contamination appears to be associated with a former septic system and another spill area on-site. Groundwater contamination extends beyond the property boundaries toward the southwest to the Fox River. The Fox River is located approximately 1100 feet west and south of the site.

1.1.3 Preliminary Removal Assessment/Removal Site Inspection Results

Between February 2006 and January 2012, the Illinois EPA and McHenry County Department of Health (MCDH) collected groundwater samples from residences located at the Site. Results for some samples collected from private residential wells indicated the presence of chlorinated solvents at concentrations above the EPA drinking water maximum contaminant levels (MCL), including tetrachloroethene (PCE), trichloroethene (TCE), and vinyl chloride. Other VOCs were detected at concentrations below the EPA MCLs, including cis-1,2-dichloroethene (DCE); methyl-tert-butyl-ether (MTBE); and toluene.

2. Current Activities

2.1 Operations Section

2.1.1 Narrative

Extension of the City of McHenry water main to the affected residences on River Road is complete. Service connections to the five affected homes is complete.

2.1.2 Response Actions to Date

During this reporting period, the following field activities took place:

- Mobilization of ERRS, START and subcontractors to the site for the water main extension work began on April 13, 2015. Site work included initiating lane closures and asphalt cutting.
- On April 15 to April 20, 2015 asphalt cutting was completed. Trench excavation and the water main installation on the south end of the extension began along River Road. Once the new 12" water pipe was laid, 4 inches of C11 wash stone was installed under the pipe and 1 foot of C11 wash stone was installed over the top pipe. The excavation was then filled in with C6 wash stone and was graded to road level.
- Installation of three fire hydrants began April 21, 2015 and was completed on April 22, 2015.
- Installation of 12 B-boxes began April 23, 2015 and was completed April 27, 2015.
- On April 28, 2015 a pressure test completed. The water main was pressurized to 150 psi and was required to maintain that pressure for one hour. The test was successfully completed.
- On April 29, 2015 a 24-hour leak test on the water main was successfully completed.
- On April 30, 2015 all areas of N. River Road that had been excavated for water main installation were paved with asphalt.
- On May 21 to May 29, 2015 Colette & Ano Plumbing completed the connections of the 5 homes to the City of McHenry municipal water system.
- On May 29, 2015 all bottled water deliveries have been discontinued now that the 5 homes are connected to City of McHenry municipal water system.
- On June 11, 2015 well abandonment on the five homes began (1102, 1110, 1106, 1107, and 1101 River Road). Final plumbing work on the last home was completed during the week of September 7, 2015. All well abandonment and residential connections are now complete.

2.1.3 Enforcement Activities, Identity of Potentially Responsible Parties (PRPs)

2.1.4 Progress Metrics

Waste Stream	Medium	Quantity	Manifest #	Treatment	Disposal
Clean Soil *	Solid	1220	NA	Disposal	Thelen Sand and Gravel Inc.

* The clean soil was removed from the roadway area during the water main installation. The soil was replaced with clean compacted gravel.

Green Metrics

Metric	Amount	Units
Diesel Fuel Used	1600	gallons
Unleaded Fuel Used	1200	gallons
Alternative/E-85 Fuel Used	0	gallons
Electricity from Coal	0	kW
Electricity from solar/wind	0	kW
Electricity from grid/mix	0	kW
Propane	0	gallons
Solid waste used	0	pounds
Solid waste recycled	0	pounds
Cardboard & Plastic Recycled	0	pounds
Plastics Recycled	0	pounds
Aluminum Recycled	0	pounds

2.2 Planning Section**2.2.1 Anticipated Activities**

None. Work is complete. The warranty on the water main/service connection work continues through June 2016.

2.2.1.1 Planned Response Activities

None

2.2.1.2 Next Steps

None

2.2.2 Issues

None

2.3 Logistics Section

Not applicable

2.4 Finance Section**2.4.1 Narrative**

See cost table below:

Estimated Costs *

	Budgeted	Total To Date	Remaining	% Remaining
Extramural Costs				
ERRS - Cleanup Contractor	\$455,500.00	\$440,753.33	\$14,746.67	3.24%
START	\$20,000.00	\$13,826.00	\$6,174.00	30.87%
Intramural Costs				
Total Site Costs	\$475,500.00	\$454,579.33	\$20,920.67	4.40%

* The above accounting of expenditures is an estimate based on figures known to the OSC at the time this report was written. The OSC does not necessarily receive specific figures on final payments made to any contractor(s). Other financial data which the OSC must rely upon may not be entirely up-to-date. The cost accounting provided in this report does not necessarily represent an exact monetary figure which the government may include in any claim for cost recovery.

2.5 Other Command Staff**2.5.1 Safety Officer**

Safety briefings were held each day for individual contractor personnel by field supervisors.

2.5.2 Liaison Officer

Not applicable

2.5.3 Information Officer

Not applicable

3. Participating Entities**3.1 Unified Command**

None

3.2 Cooperating Agencies

Illinois EPA
McHenry County Health Dept
City of McHenry Public Works

4. Personnel On Site

None

5. Definition of Terms

µg/L Microgram per liter
MCL Maximum contaminant level

MCDH McHenry County Department of Health
MTBE Methyl-tert-butyl-ether
PCE Tetrachloroethene
VC Vinyl chloride
START Superfund Technical Assessment and Response Team
VOC Volatile organic compound
TCE Trichloroethene

6. Additional sources of information

6.1 Internet location of additional information/report

6.2 Reporting Schedule

Additional POLREPS will be issued as needed.

7. Situational Reference Materials

No information available at this time.